

[FIG.1]

100 BASE STATION APPARATUS

MOBILE STATION

104 DEMODULATION/DECODING SECTION

5 105 SCHEDULER

106 ADAPTIVE MODULATION CONTROL SECTION

103 CODING/MODULATION SECTION

102 TRANSMISSION PACKET CREATION SECTION

101 MEMORY

10 CONTROL STATION

[FIG.2]

101 MEMORY

SERVICE

15 PRIORITY CLASS

SPECIFIED TIME  $T_L$

PRIORITY  $P_{11}$

[FIG.3]

20 106 ADAPTIVE MODUALTION CONTROL SECTION

112 CQI CONVERSION SECTION

113 ADAPTIVE MODUALTION PARAMETER DETERMINATION  
SECTION

ADAPTIVE MODUALTION PARAMETERS

25 111 OFFSET TABLE

114 ADAPTIVE MODUALTION PARAMETER TABLE

[FIG.4]

LOW

QoS LEVEL

HIGH

5 [FIG.5]

NUMBER OF CODES

MODULATION METHOD

CODING RATE

10 [FIG.6]

START

ST1010 TRANSMIT CQI FROM UE TO BS

ST1020 TRANSMIT DATA FROM RNC TO BS

ST1030 STORE DATA IN QUEUE

15 ST1040 PACKET TRANSMISSION SCHEDULING

ST1050 OUTPUT SELECTED UE/QUEUE

ST1060 CQI CONVERSION

ST1070 CREATE TRANSMISSION PACKET

ST1080 CODING/MODULATION

20 ST1090 TRANSMIT DATA

END

[FIG.7]

200 BASE STATION APPARATUS

25 MOBILE STATION

104 DEMODULATION/DECODING SECTION

105 SCHEDULER

202 ADAPTIVE MODULATION CONTROL SECTION

201 PACKET DISCARDING RATIO MEASURING SECTION  
 103 CODING/MODULATION SECTION  
 102 TRANSMISSION PACKET CREATION SECTION  
 101 MEMORY  
 5 CONTROL STATION

[FIG.8]

202 ADAPTIVE MODULATION CONTROL SECTION  
 PACKET DISCARDING RATIO  
 10 203 CQI CONVERSION SECTION  
 113 ADAPTIVE MODULATION PARAMETER DETERMINATION  
 SECTION  
 ADAPTIVE MODULATION PARAMETERS  
 111 OFFSET TABLE  
 15 114 ADAPTIVE MODULATION PARAMETER TABLE

[FIG.9]

300 BASE STATION APPARATUS  
 MOBILE STATION  
 20 104 DEMODULATION/DECODING SECTION  
 105 SCHEDULER  
 302 ADAPTIVE MODULATION CONTROL SECTION  
 301 QoS URGENCY LEVEL MEASURING SECTION  
 103 CODING/MODULATION SECTION  
 25 102 TRANSMISSION PACKET CREATION SECTION  
 101 MEMORY  
 CONTROL STATION

[FIG.10]

302 ADAPTIVE MODUALTION CONTROL SECTION

QoS URGENCY LEVEL

303 CQI CONVERSION SECTION

5 113 ADAPTIVE MODUALTION PARAMETER DETERMINATION  
SECTION

ADAPTIVE MODUALTION PARAMETERS

114 ADAPTIVE MODUALTION PARAMETER TABLE

10 [FIG.11]

402 ADAPTIVE MODUALTION CONTROL SECTION

PACKET DISCARDING RATIO

QoS URGENCY LEVEL

403 CQI CONVERSION SECTION

15 113 ADAPTIVE MODUALTION PARAMETER DETERMINATION  
SECTION

ADAPTIVE MODUALTION PARAMETERS

111 OFFSET TABLE

114 ADAPTIVE MODUALTION PARAMETER TABLE

20

[FIG.12]

500 BASE STATION APPARATUS

MOBILE STATION

104 DEMODULATION/DECODING SECTION

25 105a SCHEDULER

502 ADAPTIVE MODULATION CONTROL SECTION

501 QoS URGENCY LEVEL MEASURING SECTION

103 CODING/MODULATION SECTION

102 TRANSMISSION PACKET CREATION SECTION

101 MEMORY

CONTROL STATION

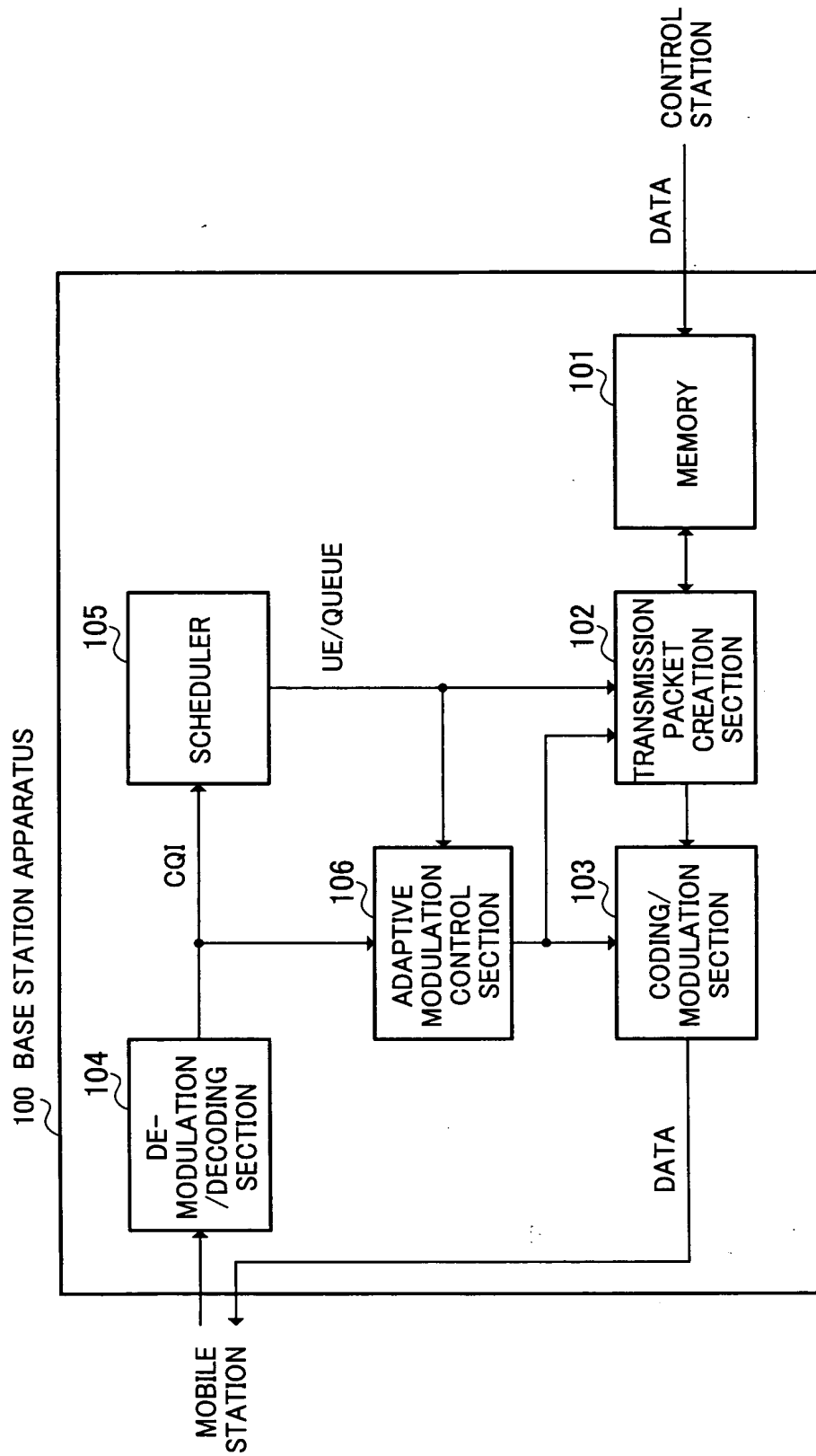
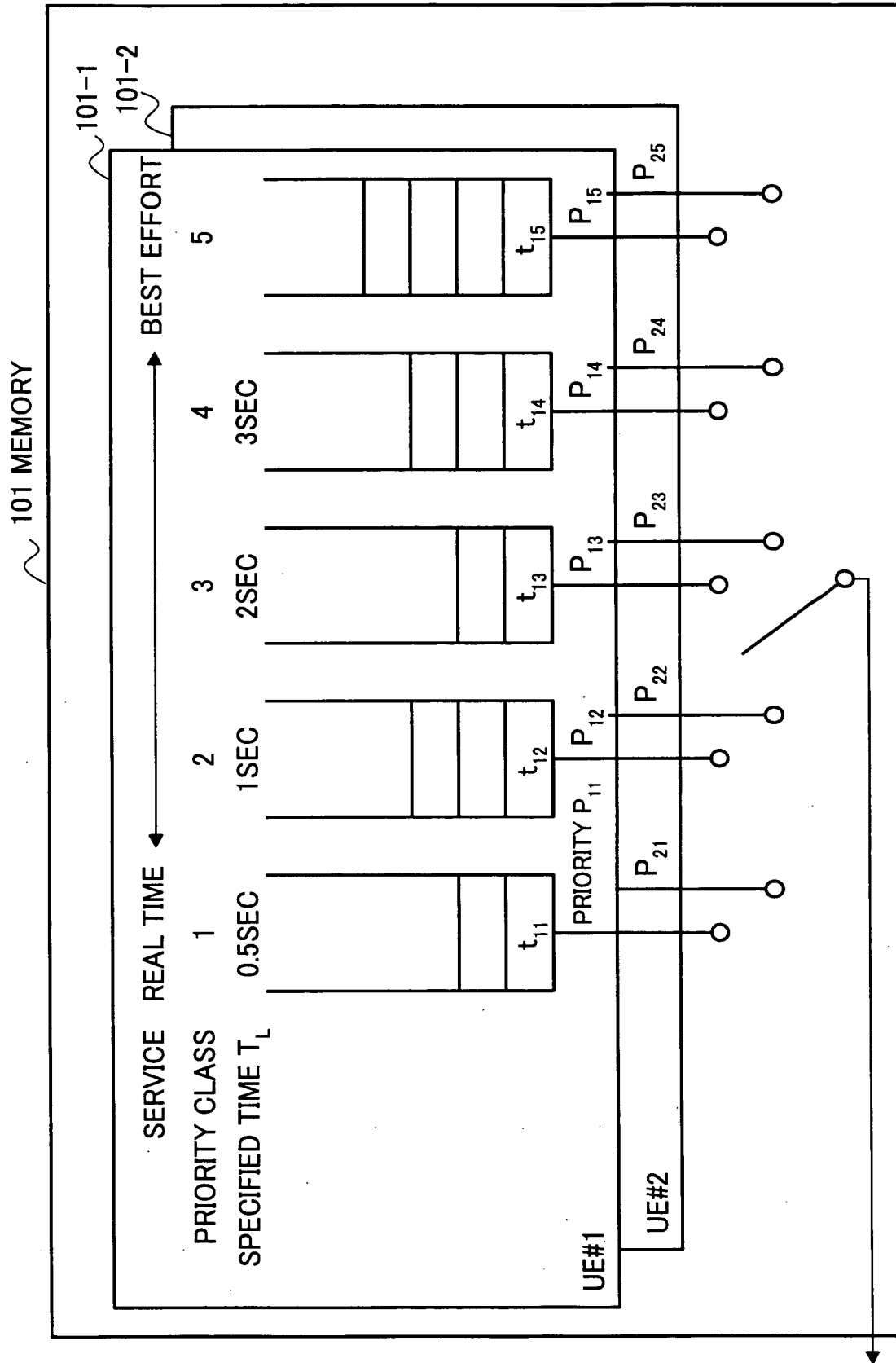


FIG.1



3/12

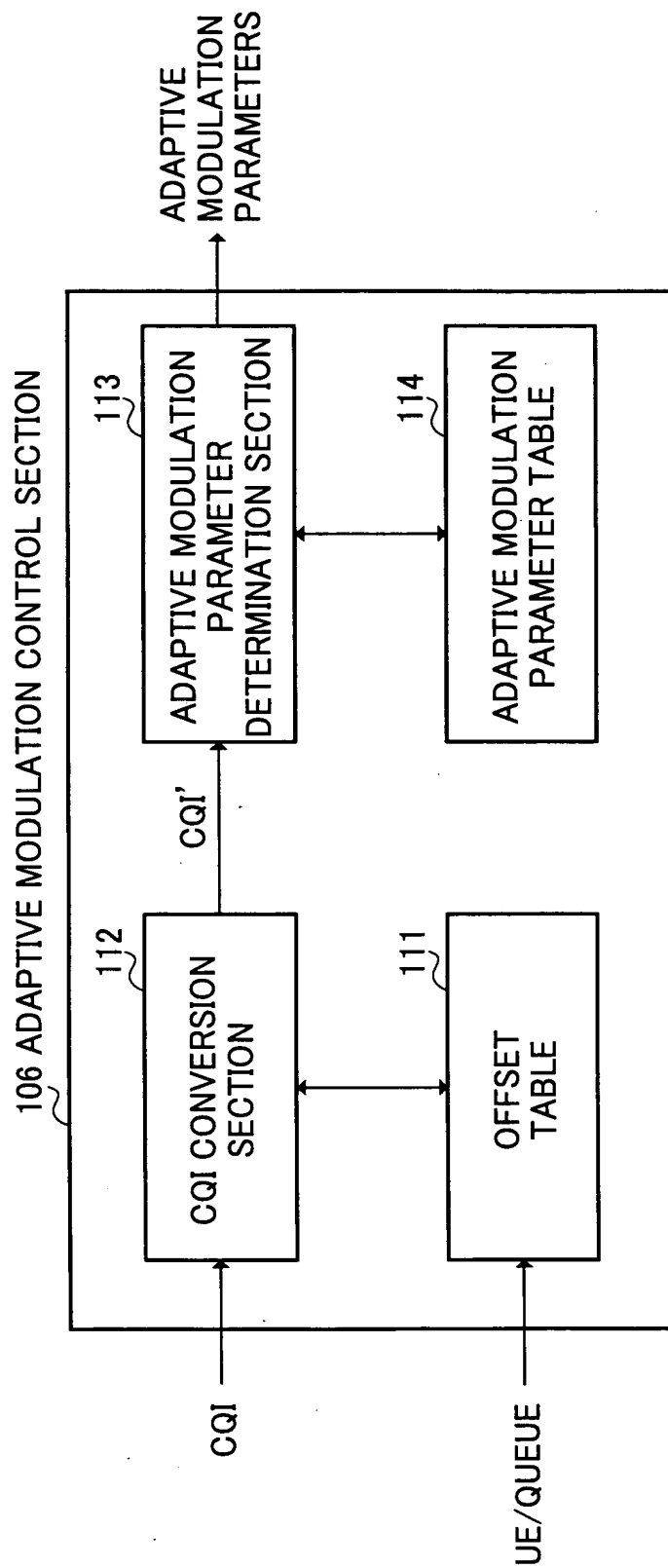
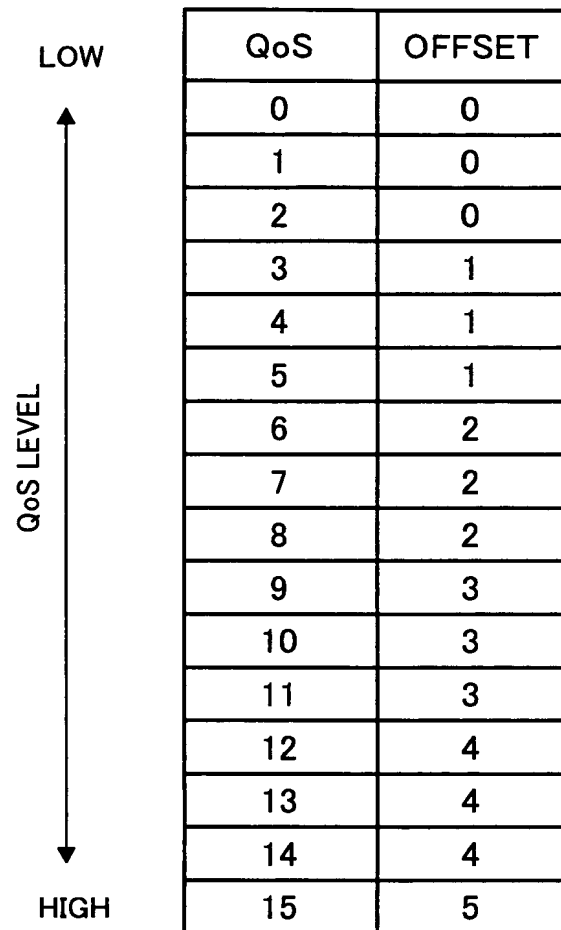


FIG.3



4/12



QoS	OFFSET
0	0
1	0
2	0
3	1
4	1
5	1
6	2
7	2
8	2
9	3
10	3
11	3
12	4
13	4
14	4
15	5

FIG.4

5/12

CQI	TBS+CRC	NUMBER OF CODES	MODULATION METHOD	CODING RATE
0	N/A	OOR		
1	160	1	QPSK	0.17
2	200	1	QPSK	0.21
3	260	1	QPSK	0.27
4	340	1	QPSK	0.35
5	400	1	QPSK	0.42
6	480	1	QPSK	0.50
7	680	2	QPSK	0.35
8	820	2	QPSK	0.43
9	960	2	QPSK	0.50
10	1290	3	QPSK	0.45
11	1520	3	QPSK	0.53
12	1780	3	QPSK	0.62
13	2300	4	QPSK	0.60
14	2610	4	QPSK	0.68
15	3330	5	QPSK	0.69
16	3590	5	16-QAM	0.37
17	4200	5	16-QAM	0.44
18	4700	5	16-QAM	0.49
19	5300	5	16-QAM	0.55
20	5910	5	16-QAM	0.62
21	6600	5	16-QAM	0.69
22	7200	5	16-QAM	0.75
23	9750	7	16-QAM	0.73
24	11500	8	16-QAM	0.75
25	14400	10	16-QAM	0.75
26	17300	12	16-QAM	0.75
27	21600	15	16-QAM	0.75
28	23300	15	16-QAM	0.81
29	24300	15	16-QAM	0.84
30	25500	15	16-QAM	0.89
31	RSVD			

FIG.5

6/12

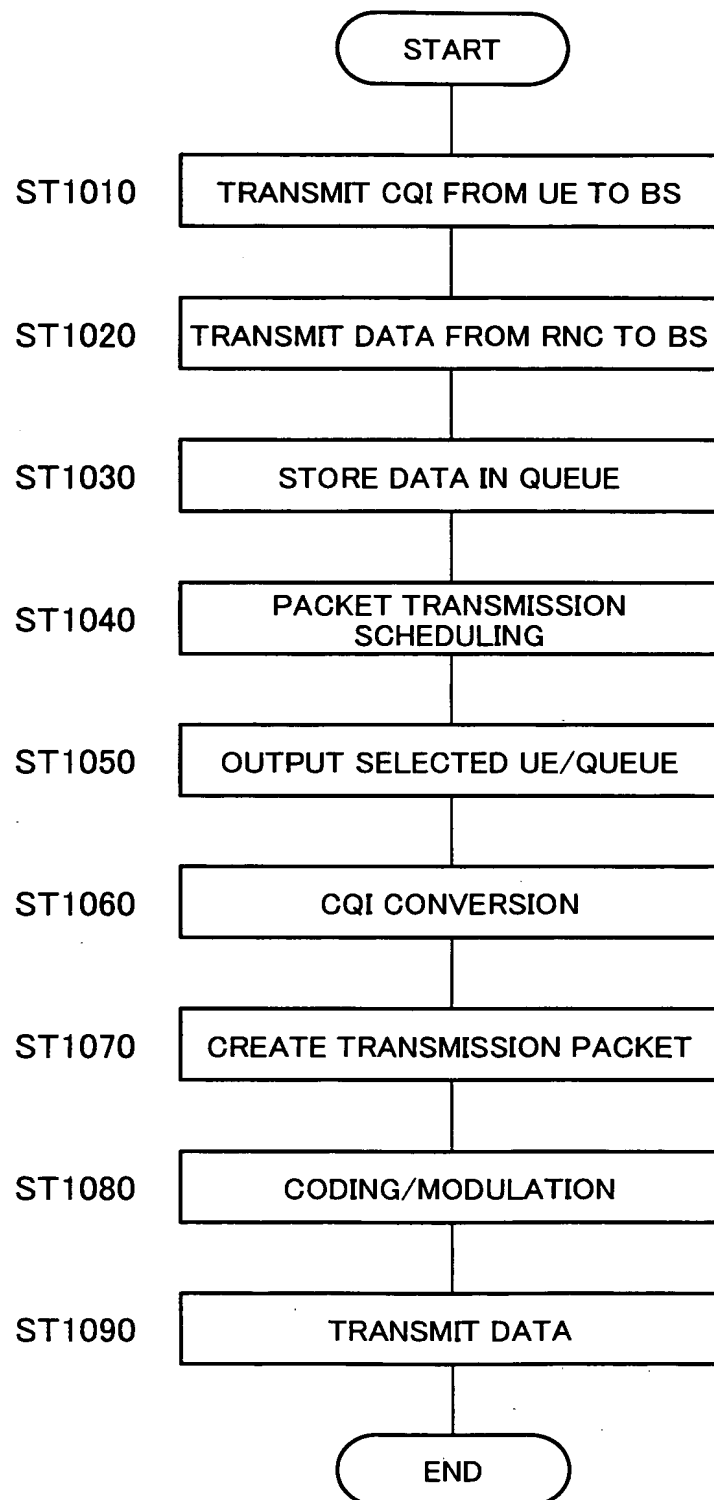


FIG. 6

7/12

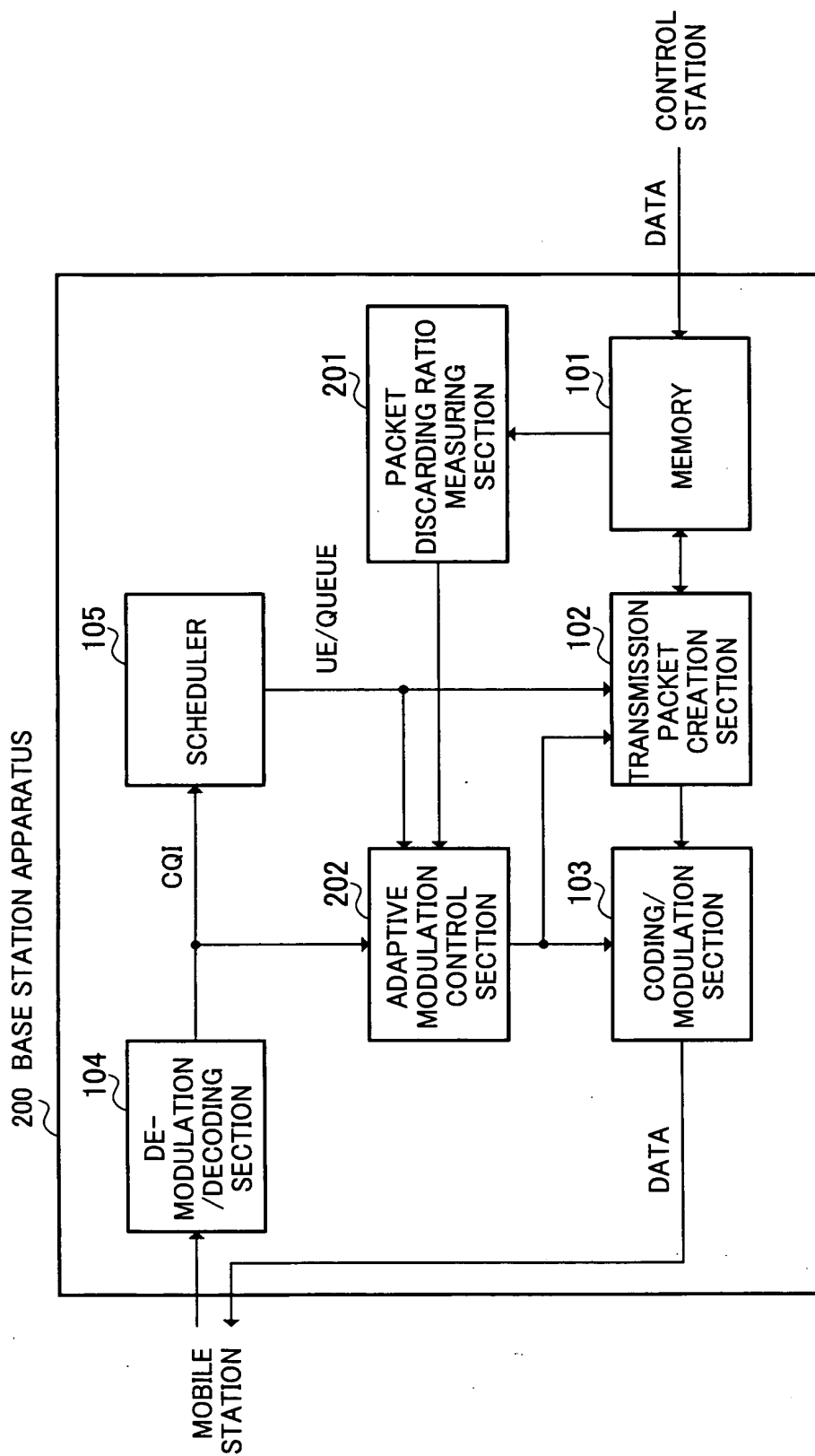


FIG.7

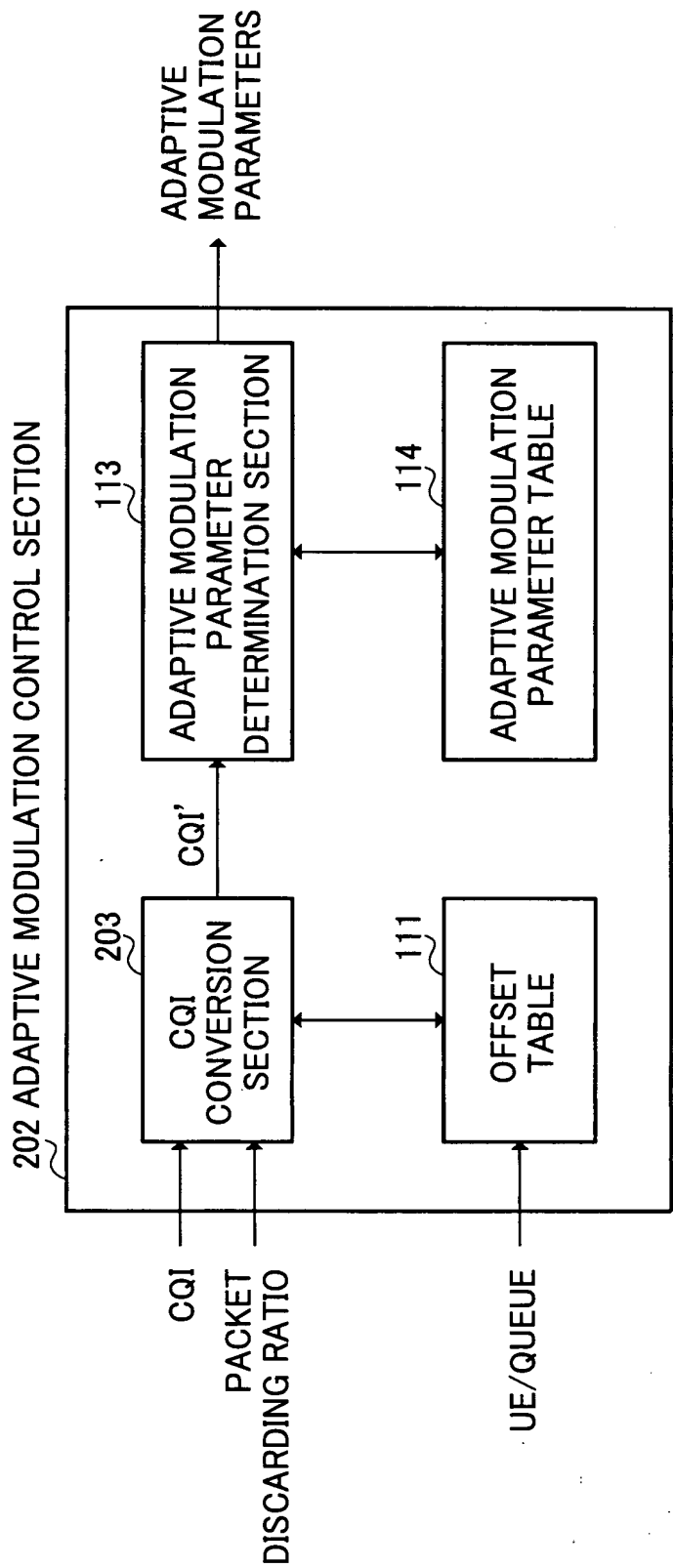


FIG.8

9/12

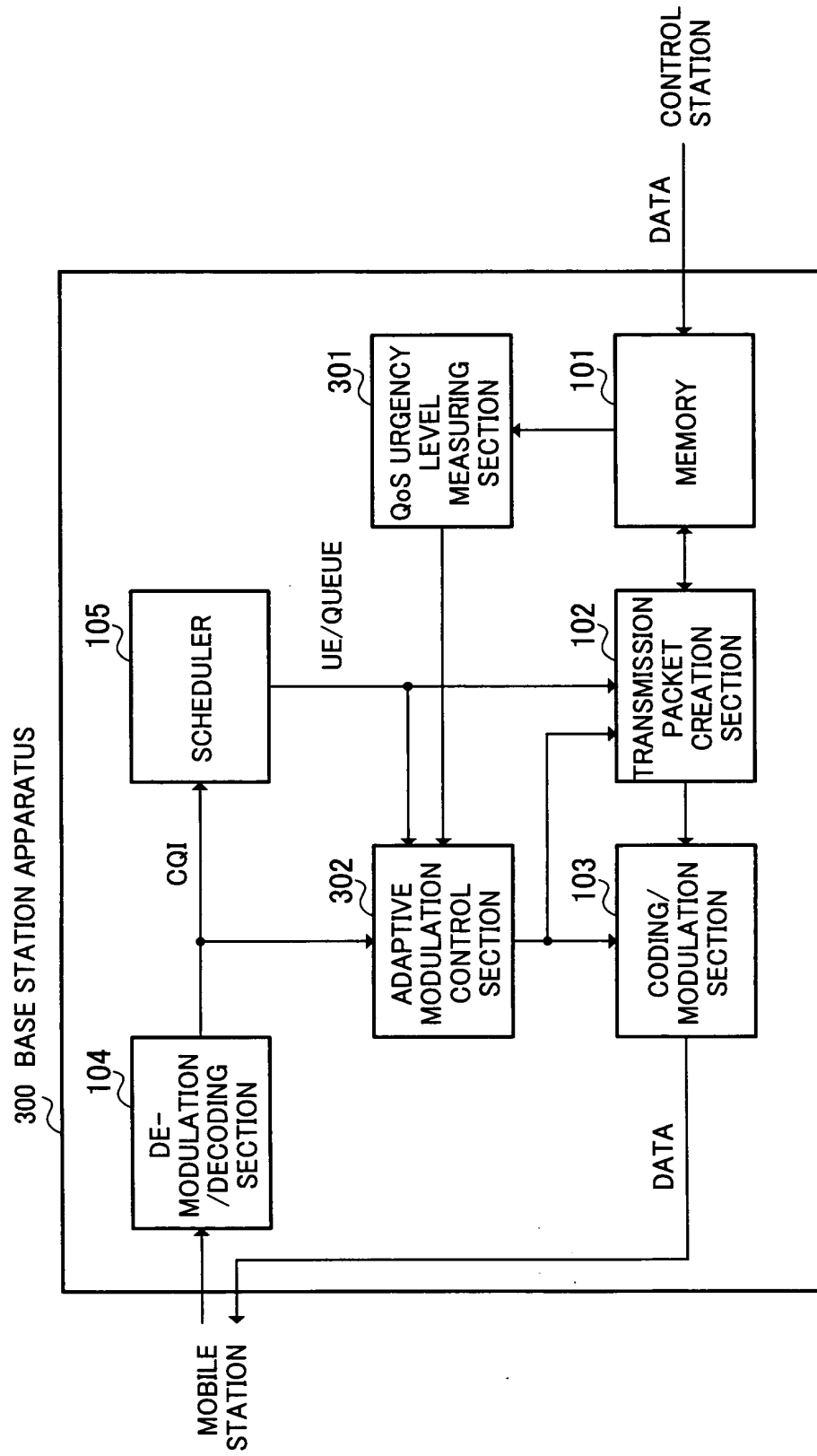


FIG.9

10/12

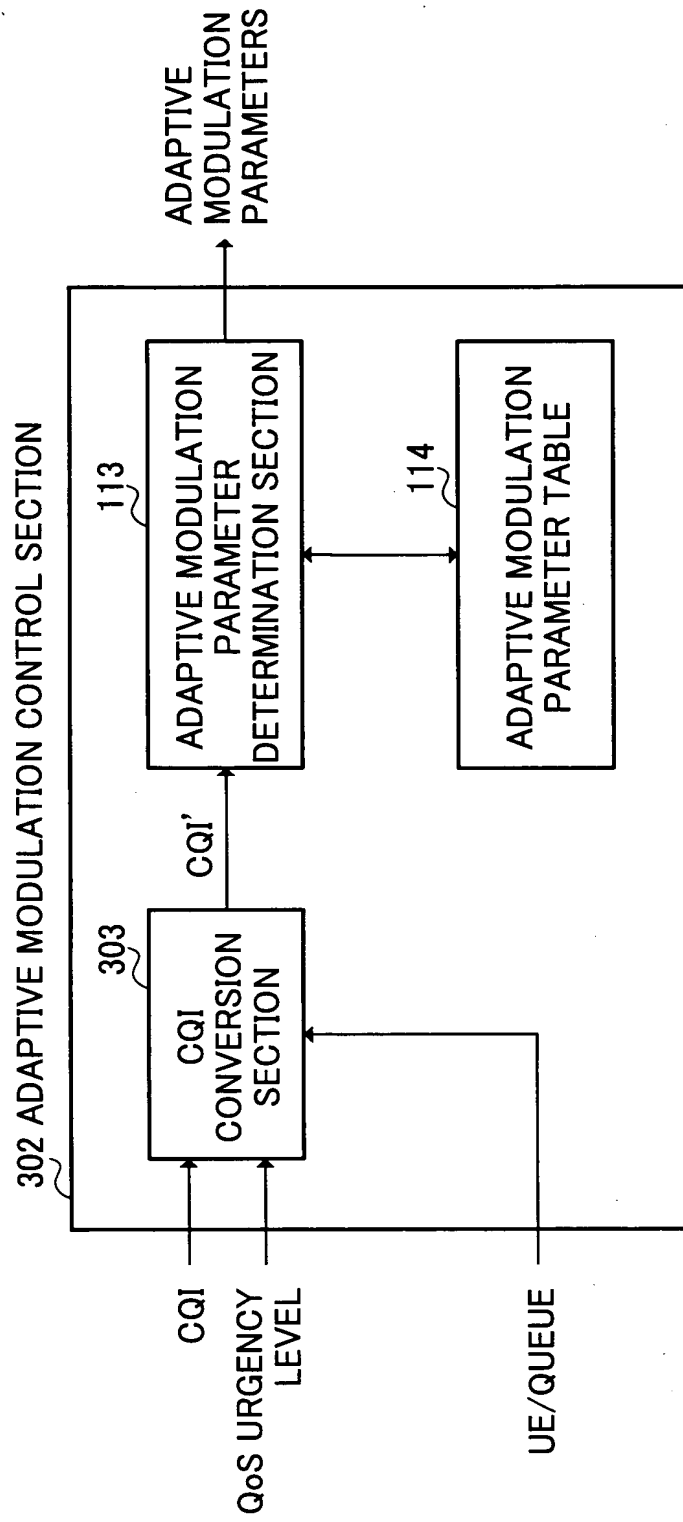


FIG.10

11/12

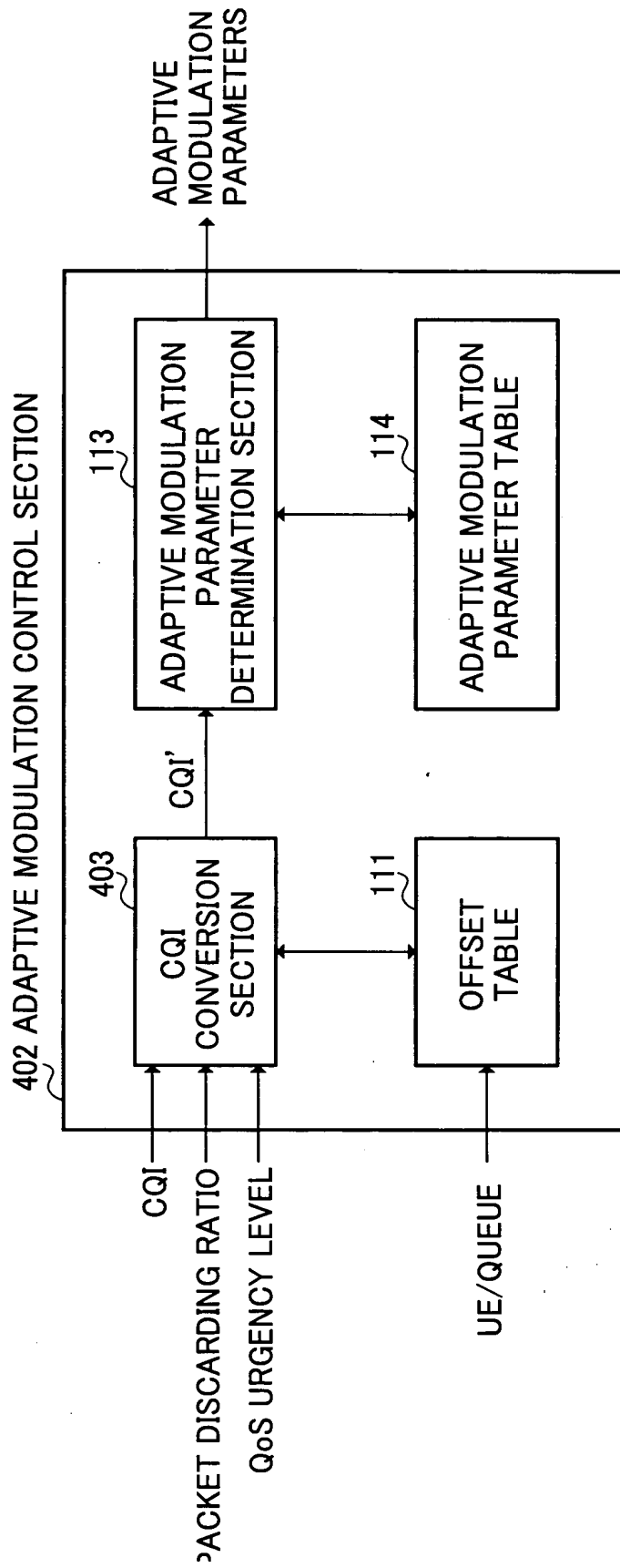


FIG.11



12/12

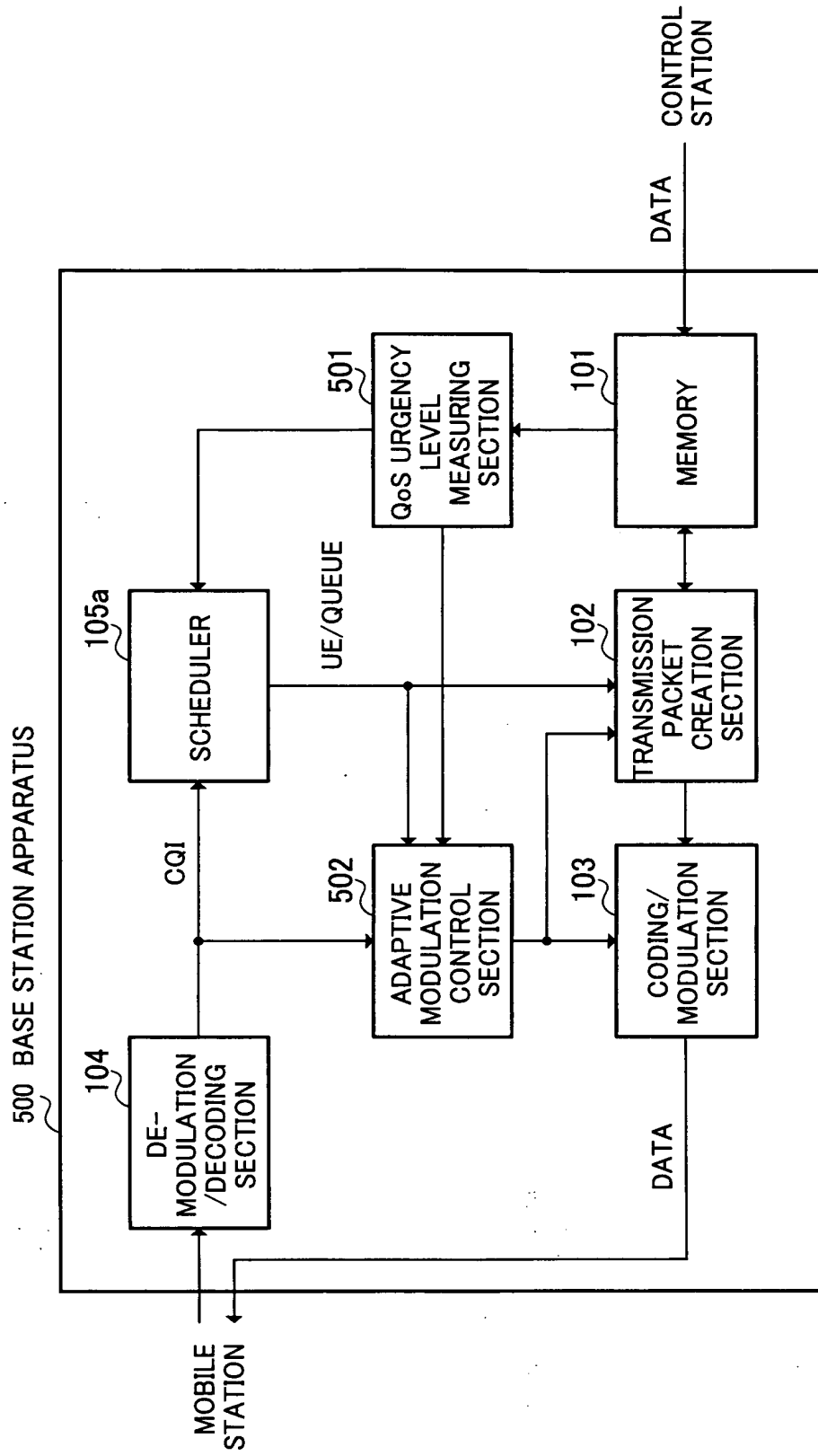


FIG.12